

**AMENDMENTS TO THE SPECIFICATION**

**Please replace the paragraph nos. 15, 16, 37, 38, 55 and 57 with the following  
amended paragraphs:**

[15]  $S_i^k = \max(V(a_i^k), F_i^{k-1})$  ~~(where  $Q_i = 0$ )~~,

[16] where  $S_i^k$  is a virtual start service time of a k-th packet of an i-th stream, V(t) is a system virtual time function equal to  $V(a_i^k)$ ,  $a_i^k$  is an arrival time of the k-th packet of the i-th stream,  $F_i^{k-1}$  is a virtual finish service time of a (k-1)-th packet of the i-th stream, and  $Q_i$  is wherein the quantity of the previous packet contained in a corresponding queue of the i-th stream is equal to zero.

[37]  $S_i^k = \max(V(a_i^k), F_i^{k-1})$  ~~(where  $Q_i = 0$ )~~.....(2)

[38]  $S_i^k = F_i^{k-1}$  ~~(where  $Q_i \neq 0$ )~~.....(3)

[55]  $S_i^k = \max(V(a_i^k), F_i^{k-1})$  ~~(where  $Q_i = 0$ )~~ (2)

[57]  $S_i^k = F_i^{k-1}$  ~~(where  $Q_i \neq 0$ )~~ (3)

**Please replace the Table 1 with the following amended Table 1:**

Table 1

$V(t)$	Virtual time function of system
$S_i^k$	Virtual start service time of packet k of data stream i
$F_i^k$	Virtual finish service time of packet k of data stream i
$\tau$	Renewal time-interval of system virtual time
$B(t)$	Set of all the streams to be backlogged in system at time t
$H_i(t)$	Serial number of head packet of data stream i at time t
$Q_i$	Quantity of packet to be scheduled in data stream i
$a_i^k$	Arrival time of packet k of data stream i
$L_i^k$	Length of packet k of data stream i
$R_i(t)$	Data rate of data stream i at time t